# VIRTUAL MACHINE INTERFACE FOR HARDWARE RECONFIGURABLE AND SOFTWARE PROGRAMMABLE PROCESSORS

This application claims priority to the U.S. Provisional Patent Application VIRTUAL MACHINE INTERFACE AND APPLICATION PROGRAMMING INTERFACE FOR HARDWARE RECONFIGURABLE AND SOFTWARE PROGRAMMABLE PROCESSOR, Serial Number 60/195,096 that was filed April 6, 2000.

## CROSS-REFERENCE TO RELATED APPLICATIONS

Related applications incorporated herein by reference are as follows:

A CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS, U.S. Patent Application No. 09/751,782, filed 12/29/2000.

APPARATUS AND METHOD FOR CALCULATING AND IMPLEMENTING A FIBRONACCI MASK FOR A CODE GENERATOR, U.S. Patent Application No. 09/751,776, filed 12/29/2000.

A FAST INITIAL ACQUISITION AND SEARCH DEVICE FOR A SPREAD SPECTRUM COMMUNICATION SYSTEM, U.S. Patent Application No. 09/751,777, filed 12/29/2000.

A CONFIGURABLE MULTIMODE DESPREADER FOR SPREAD SPECTRUM APPLICATIONS, U.S. Patent Application No. 09/751,785, filed 12/29/2000.

A CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS, U.S. Patent Application No. 09/751,783, filed 12/29/2000.

checked sxl 6/16/05

A WIRELESS SPREAD SPECTRUM COMMUNICATION PLATFORM USING DYNAMICALLY RECONFIGURABLE LOGIC, U.S. Patent Application No. 09/772,584, filed January 29, 2001.

checked 6/16/05

UNIVERSAL CODE GENERATION, Serial No. 60/222,829, filed 8/3/2000.

## MICROFICHE APPENDIX

A microfiche appendix entitled "Appendix A, Cellular Basestation Modem Engine (CBME) Virtual Machine Interface Specification, Document Version 2.01," is included in the present application. The microfiche appendix includes 2 microfiche cards.

## BRIEF DESCRIPTION OF THE INVENTION

This invention relates generally to application programming interfaces. More particularly, this invention relates to a virtual machine interface and/or application program interface.

## BACKGROUND OF THE INVENTION

A cellular communication system is a wireless communication network in which geographical areas are divided into a number of smaller areas or cells in order to provide scalability of coverage for multiple users with minimal intercell interference. A mobile cellular communication system is a cellular communication network in which the terminal devices (users, mobiles) may be in motion from one location to another relative to a basestation.

In a typical digital wireless communication system, multiple basestations are provided to perform switching and connection services between users or terminal devices. FIG. 1 illustrates typical cellular wireless communication system architecture. Basestation 105-1 provides wireless communication system to mobile stations 101 and 103. Similarly, basestation 105-2 provides wireless communication system to mobile stations 111 and 113. Basestation 105-1 is connected to the basestation 105-2 via network 107.